

**NASA EARTH SCIENCE ENTERPRISE  
TECHNOLOGY PLANNING WORKSHOP**

## Agenda

### Day One

Tuesday (January 23, 2001)		
Time	Event	Presenters
8:00	<b>Introduction and Welcome:</b>	Ghassem Asrar
8:15	<b>Workshop Overview and Purpose</b>	Fuk Li
8:30	<b>Earth Science/Applications Themes and Capability Needs</b> <ul style="list-style-type: none"> <li>• Biology and Biogeochemistry of Ecosystems and the Global Carbon Cycle</li> <li>• Atmospheric Chemistry, Aerosols and Solar Radiation</li> <li>• Global Water and Energy Cycle</li> <li>• Oceans, and Ice in the Earth System</li> <li>• Solid Earth Science</li> <li>• Data Systems</li> </ul>	Diane Wickland  Phil Decola Bob Schiffer Eric Lindstrom John Labrecque Martha Maiden
10:30	<b>Introduction to Key Technology Areas</b>	Fuk Li/George Komar
11:00	<b>Breakout Sessions</b> <ul style="list-style-type: none"> <li>• Identify science capability needs</li> <li>• Review technologies in the pipeline</li> </ul> <p> Large, Light-Weight Deployable Antennas  Ultra-High Data Rate Communications  Light-Weight Deployable UV/Visible/IR Telescopes  Intelligent Distributed-Spacecraft Infrastructure  Precision Navigation  Onboard Processing  Integrated Optics and Spectral Dispersion Technologies  Laser Technology  Innovative Technologies </p>	Breakout Session Co-Chairs/ Selected Breakout Session Presenters
12:15 – 1:00	<b>Lunch</b>	
1:00	<b>Breakout Sessions-continued</b> <ul style="list-style-type: none"> <li>• Identify science capability needs</li> <li>• Review technologies in the pipeline</li> </ul>	
5:00	<b>Adjourn Breakout Sessions</b>	

<b>Wednesday (January 24, 2001)</b>		
8:30	<b>Plenary: Mid-Term Breakout Session Summary</b> Recap in Breakout Sessions Seek assessment inputs from group leads/facilitators on issues and concerns with the progress towards producing products. Provide guidance and answer questions.	Breakout Session Co-Chairs
9:30	<b>Breakout Sessions-continued</b> <ul style="list-style-type: none"> <li>Identify convergence of Science needs and candidate Technology solutions</li> <li>Formulate technology development roadmaps, with major development milestones</li> <li>Identify technology development gaps</li> </ul>	
12:00- 1:00	<b>Lunch</b>	
1:00	<b>Breakout Sessions-continued</b> <ul style="list-style-type: none"> <li>Define technology development plans Justify flight validation where necessary <ul style="list-style-type: none"> <li>Subsystem vs System validation</li> </ul> </li> <li>Ground Validation Requirements and approach</li> </ul>	
3:00	<b>Summary Plenary Session</b>	Fuk Li/George Komar-moderators
5:00	<b>Adjourn</b>	